

Name: \_\_\_\_\_

**at1113exam: Expand, factor, and solve quadratics (v331)**

1. Expand the following expression into standard form.

$$(7x + 3)(7x - 3)$$

2. Expand the following expression into standard form.

$$(2x - 9)^2$$

3. Solve the equation.

$$(6x + 7)(4x + 5) = 0$$

4. Expand the following expression into standard form.

$$(3x + 2)(4x + 9)$$

5. Solve the equation with factoring by grouping.

$$20x^2 + 15x + 8x + 6 = 0$$

6. Solve the equation.

$$9x^2 - 30x + 8 = 4x^2 - 3x - 2$$

7. Factor the expression.

$$16x^2 - 25$$

8. Factor the expression.

$$x^2 + 17x + 72$$